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Figure 1

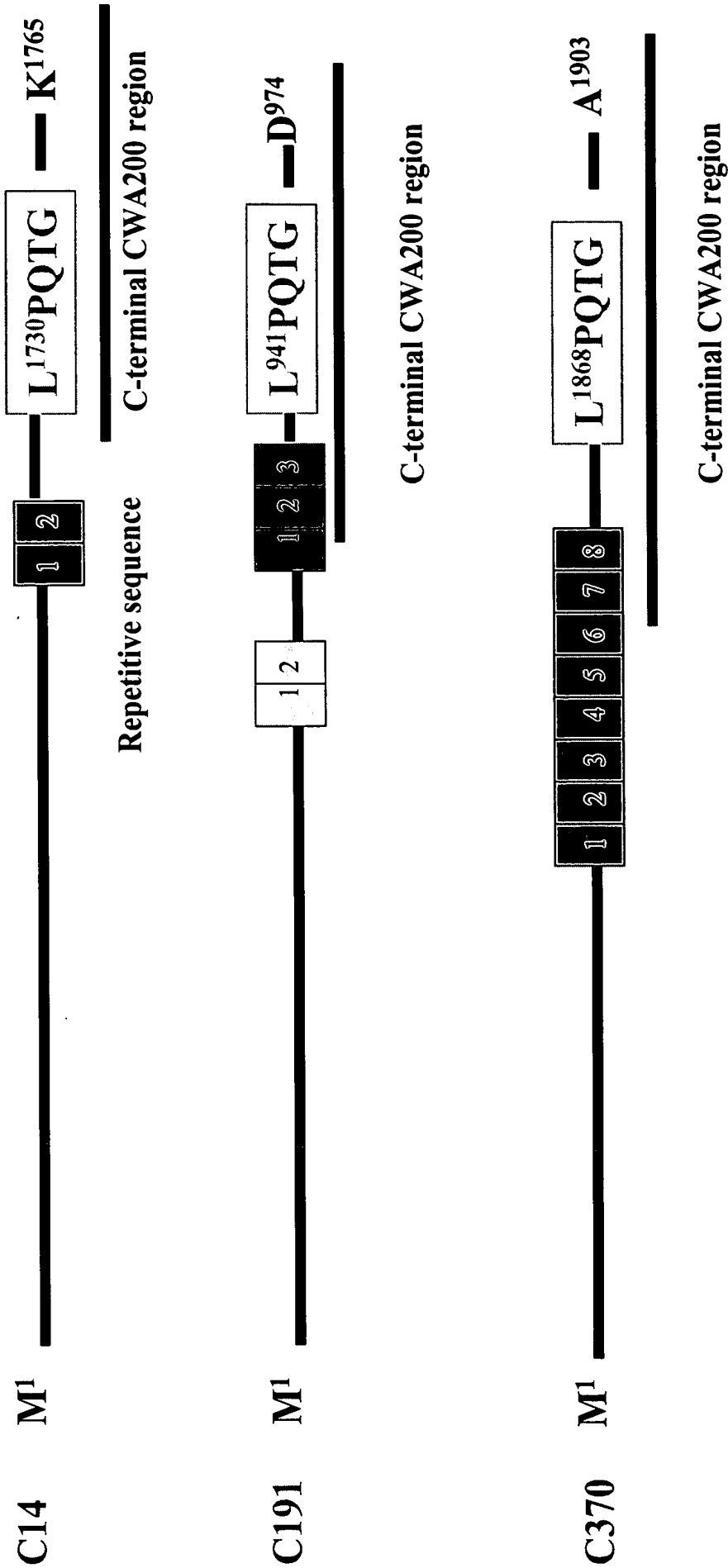


Figure 2A

**C14 SEQUENCE RESULTING FROM GENOMIC SEQUENCING OF L. JENSENII
1153 (CWA200 REGION ALONG WITH ANCHOR MOTIF UNDERLINED)**

¹MNDSSIGTINITNDITITGKVNGLTTSGISDINKHFLYLQSEGSARDLTINGNGHRINFA
GYSIALQNKNYTNAANPWNITLKDMTIEGSKYDYSPISFYGRKSNSTENSKLTFDGV
ANLNDRLPLVDKYGENLPVHFAGENNITLNNMSIGYNLVTGKTVKFDSGNTTFNVDG
KVTGNSINPDNWVIRSTENASNSNPSTLINEGATVTINAKSDDLRLGIYAGRQLTAGQ
PIYGVTVINGTLNAKMAAGHSTAIWSDLEIGKKGNVTIHTKQTNQADGVENGTSNS
VTNYNGTHYAPISLGVGPISVASPLSKQTVSLINNGSLTIIRD TAKKTLVPLISMGDGS
LSSNTTLKFSVGAGATLDLQDKAGTFRYGIEPSTPLNGLVTLWGTS GTDLLEFLTPAY
VNLQRTGDIRGTLIRMEGVYNSTTVNGPTPVAQWDQGNKTTTPNDVWYVRYLISAN
QWGNNSGQFMGKDQHPNTVVAKKGVDTLYNSNATVLMSKNQGADKYENGTMPT
EVQQALHLNSFLNNFNFWRPQRMAMGSKLNDNPDVKIDDFDKYHAEAQTIDGTTR
QTLSDLDANKGLKDLIGPDEQPITDFKDIVKHVTWYNSATDKDEWNKIMIQPTDSKD
PSARVPYPEPQNPTGNLKT TDGFAWAKVTYADGSVDFVKIPLKVTEKKYSEELTPSY
PGVSVEQGKSDSVDPSFKDENDKAADAPAGTKYTAGENTPDWIKVDPDTGKVTVSP
TDDTSVGSHDISVTVTYPDSSTDQLTVPVTVTEKSNLAEKYPVSYDKLNVEKPSGDT
PATGAVDPKAAADMPEGAITGYEKGDFDAPAGVTIDVNHDTGKVTASVGKNATLG
SFEVPVKVTYSDGTYAEVKVPVSITGNKVDPGSGDVVYYGDQSMVVFNGNLTTVH
KTTDSHELAKDSAFQTITYYSDWNKKGNIVSDYNKHVIYKLSADGTKYVNEADAT
DSFDASAI SFNWQKGYEVNTGVDNFSNGSADTLYQLEKGAVNSEEQTDANDPSGLA
GNSKYRYDFSISDTNVLQKLGLSPAGYNANVYYNFLGATGKINIPVNYGSEVSTD
EAGIKNYLATNSISGKTFVNGNPTGIKWAENGMPGKD GKF AASNMTGIVEFTFDNGT
KLVNQVTFKTGSHVSTSGSKVNDDTNLYVERTIEYDVTGTGHSPINSVTQKVHYVRD
GYHKINADGTDAGEIHWNEWKLADGQTAEFPEYSVDQITGYDAYINGAKATQVDAA
KVAETNGTPQNGQNITVTYKKQNSTPVPYKPGKDGVNDAINRYVTRTIIVKEPGKEP
QTITQTVHFTNEDKDGNSGYKDPVTGEIKYNTDWHVASDLNAKTGSWEEYTAPSVT
GYTPSQAKVEAKTVTAETEAASVTISYTKNADIPVPYKPGKDGVNDAINRYVTRTIIV
KEPGKEPQTITQTVHFTNEDKDGNSGYKDPVTGEIKYNTDWHVASDLNAKTGSWEE
YTAPSVTGYTPSQAKVEAKTVTAETEAASVTISYTKNADIPVPFDPSNKM MYRE VTR
TINVDPITGKISTSVQTA KFTREDKNSNAGYTD PVTGKTTMNPWTPAKQGLRAVNV
EQIKGYVAKVDGNVDAVVVTPDSANMVVTITYQANKPEGONITVKKDTPDPADGI
KNKDDLDPDGTKYTWKEVPDVNSVGEKTGIVTVTFPDGTSVDVKVTVYVDPV VESN
RDTLSKEANTGNTNVAKAATVTSSKVESKKTLPQTGSKTEQVGILGLAIATVGSLLG
LGVNRKKRQK¹⁷⁶⁵

Figure 2B

C191 SEQUENCE RESULTING FROM GENOMIC SEQUENCING OF *L. JENSENII* 1153 (WITH CWA200 REGION ALONG WITH ANCHOR MOTIF UNDERLINED)

¹MPVANKPEGTVHTTYSWKDNIIPDTTKPGTKYGIVEVNFPDGSTKDVPVEVKVTSL
ASDYQNKIDTKQIIAKYKGNIPQASDGIANKDQATKEGDKDFPSLADV LAPNGIQWK
KNFEPDLSKPGLTSGEAILTFKDGSTAEVTIPVLVQTDADRNPETQTIKTLPGQTVNP
EDGVINLHKPGENNPQLPDGTVTFDNQSDVDDFTKHGMPGSDKSFDATVTYPDGT
TDKIKLPVHITADNEVNTPIQGIITPKDSVPDANKGIANLKKATTKEGKTYPALPENT
TVEWVNPGQMKTENAKGGTTKNYDAVVIYPDKSTEIVSIPVTVATDADTYKVVT
QPIDLKDRNLPDNADDGITNLHKPADFKTPQLPDGTHAEWQDKDAAQEVVKNLKPG
ETVKLPATVVFPDGSKKGEIDVSVHLHGQSDDYNIETQPVNTDKDGNLPENADSGI
KNLGKLPEGTHASWGDGAQDIANKNLKPGETKDVPATVVFPDGSKKEITIPVHREGQS
DGYDVEPQLVNTDKNGQLPNAKEGIKNLADLPEGTNPTWADRAQDKINKTKPGTDT
TAQVVVTFPDGSTKEVTVPVHKHGGQSDDYGDKIVTQRVETDSHGQLPENADSGIKN
LGDLPEGTHAVWGQGAQTIVDGMKPGETKDVPATIEFPDGSTKDV TIPVYKTSTRDQ
GTLNPPTDKVSVD DTKHITDEDKGKVIDNVKKSNPDKDITDAHVDDDGT FHGKVDG
QDVVIPGTETVVEKQKESLNPPTDKVPVDDTKHITDEDKGKVIDNVKKSNPDKDITD
AHVDDDGT FHGKVDGQDVVIPGTETVVEKQKESLNPPTDKVPVDDTKHITDEDKGK
VIDNVKKSNPDKDITDAHVDDDGT FHGKVDGQDVVIPGIETVVEKSTNNQKSDTNK
GLISNDNSEKNSHMINANVNTKSRNSLSAKQNRLPQTGSETSGLSALGLAMLSLVGL
GFLIKRKED⁹⁷⁴

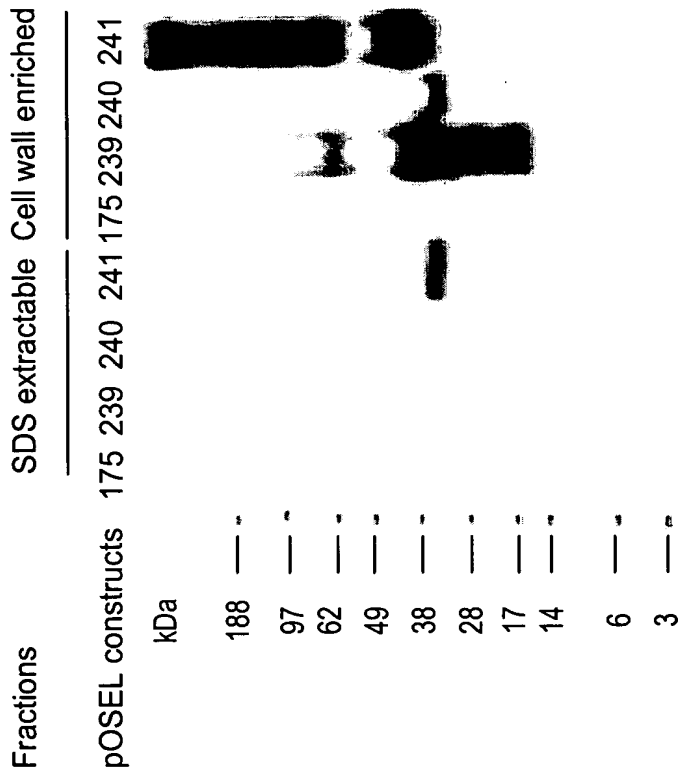
Figure 2C

C370 SEQUENCE RESULTING FROM GENOMIC SEQUENCING OF *L. JENSENII* 1153 (WITH CWA200 REGION ALONG WITH ANCHOR MOTIF UNDERLINED)

¹MFYQIDPALAPYIDKIVFSRALLSDGEATKDTSNEVPGATNVWTSGVLTQTQNGPIRA
ALAGSTSSTYKIYLKADTPNSILSKPLSFTMWARYSSGHDMVSDFSKNLILNDNETTT
FSSNNFFKSLDIVNNDGPILDNMSVDYSNKTVNTRYRVNGSLLGDKSNLTLRIRGND
NLLKLIDKVKISNKTYTLANNTLKYRTGELYINDIGGSLGFLSSLSNRQDFNVTFYLK
NGKSFADALTSESQKFDFQFGIYDTTDYATAFHSLDVTNSLSTKTYTTGDKYNNQT
YDLSTFKTILDKLIKQKQDNPTTYLSFEDKKISATENNPYEA VKLALESPTFTNISIAKS
LVNAADCKQLDNTAKWAWDNGARDDLKYLDVATKVASYIHLEFPTKPTDFSGLL
LRYTRAGTFISAVDSDRDGVLDITEIDNSYGMNPSVYDTDGDGISDGGQELREGDPG
VAPFNWTDANGNQLSIDVDTTISGQLGNHNYHNEVMQPRTVNLYKVDDTGKKTLI
AYTTSAVDQNGSFTLSKFTLNKGDKLVIGYVTPRTNKS LTDKDTILQQAFPTEQFSNE
IIVKKGKQVTVTFMNGVSDDENQDIKVEKDSSFNKDSLTLPTPTMKTGYSFKEWNTQ
ADGKGT VVTADTIFD TDTTVYAIGEKIKLPNPTNIKAETR TDDKTKS QETIITGKATPG
ATVTIKDNLGNEIGTG VANDAGNFEIKTTSPLAEATKVSVEATKGGESSDAVEATVE
QNNFQKGNPLIQPASPTAVTAVTIKASDGTNNSTTVTGKAAAGETVTVKDSSGNEIG
TGVVGEDGTFTITTNKPIAENERIQVVVT KD DAESEPT EAVVTAKTEPTNPTEVTAKT
LPDGNSDSTIVAGKGKAGE
VVTVKNDAGKVIGTGKVSDDGTFSIKTDEVIEPGKQVSVITTNDGMDSIPVPVTVSGE
TITSIKQSAKAAVDNLT YLNNAQKQSAKDAIDSANTVDEITTAKNNAVSTDTNMKDL
SEDTKLAADKTQDPYLNADLDKKQAYDKAVEEAQKLLNKETGTSVGADKDPAEVA
RIKQAVDDAYDALNGNSSLD DAKQAKDAVDKNYTNLNDKQKETAKKRIDS AKSE
DEVNNADKINSGLNEKMGE LKEVSNLSDKIETTSNYSNADSDKKQAYKETADKIHET
VAPSGDDLTTDDVN NLITDEATKRAALNGDAREKARQE
LENNYNSGKSLQDGSTLDP RYYNASEEKKQAFQKALD NAKKALDNSETTEAEYKSA
NDELQKAKADLDGQT TDKSKLDDAIKDANNAKGTDKYKNASDDTKSKFDEALKKA
EEVKNNNSNATQKEVDDATNNLKQAQNNLNGQT TDKSKLDDAIKDANNAKGTDKY
KNASDDTKSKFDDAL KKAEEVKNNNSNATQKEVDDATNNLKQAQNDLDGQT TDKS
KLDEAITDANNTKLTDKYNNASDDTKSKFDEAL KKAENVKNDSNATQKEVDDATN
NLKQAQNDLDGQT TDKSKLDEAITDANNTKSTD KYNNASDDTKSKFDEAL KKAEE
VKNNNSNATQKEVDDATNNLKQAQNNLDGQT TDKSKLDEAITDANNTKSTD KYKNA
SDDTKSKFDDAL KKAEEVKNNNSNATQKEVDDATNNLKQAQNDLDGQT TNKDTLND
AIKDANDAKGTDKYKNASDDTKSKLDETLKKAEEVKNNNSNATQKEVDDATNNLKQ
AQNDLDGQT TDKSKLDEAIKSADDTKSTD KYNNASDDTKSKFDEAL KKAEEVKNN
NATQKEVDDATKNLKQAQNDLDGQT TNKDAINDAIKDANNAKGTDKYNNASDDT
KSKFDDAL KKAEDVKNDSNANQKEVDDATKNLKNTLNNLKGOPAKKANLIASKDN
AKIHKQTLLPQTGTETNPLTAIGIGLMALGAGIFAKKKRKDDEA¹⁹⁰³

Figure 3

A.



B.

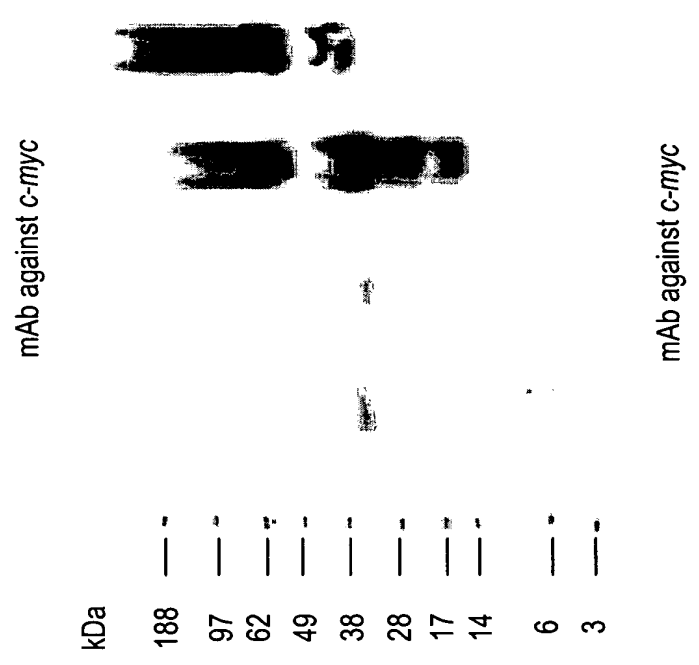


Figure 4

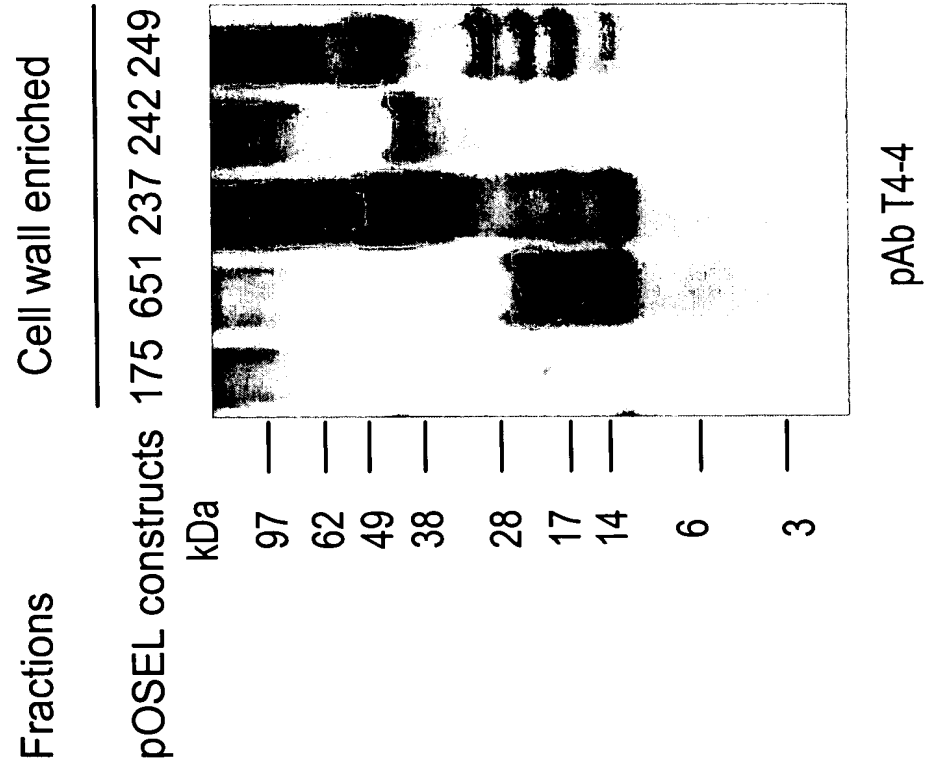
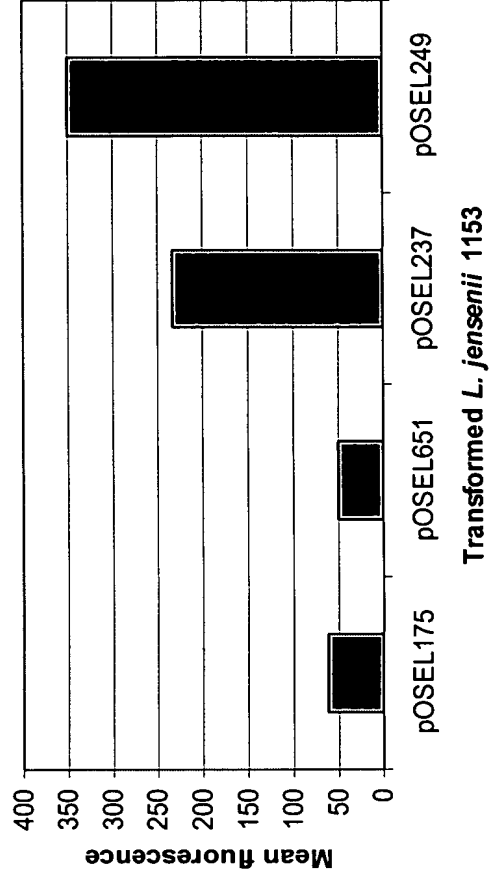


Figure 5

A.



B.

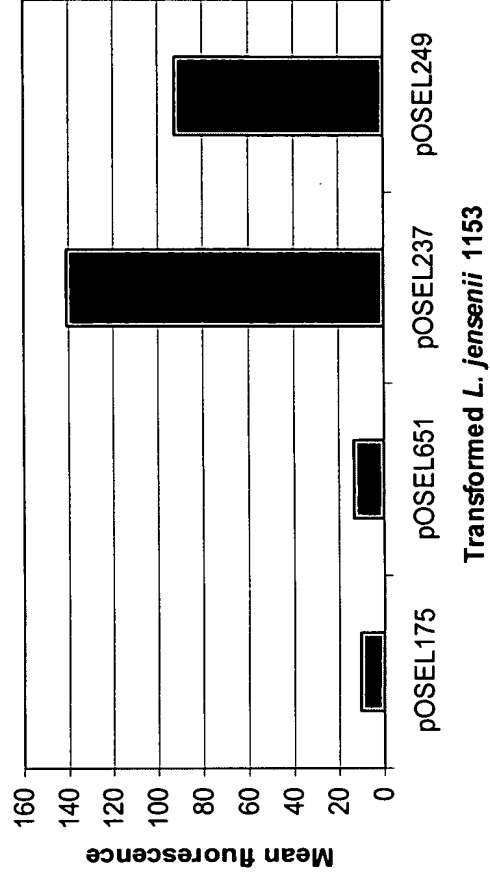
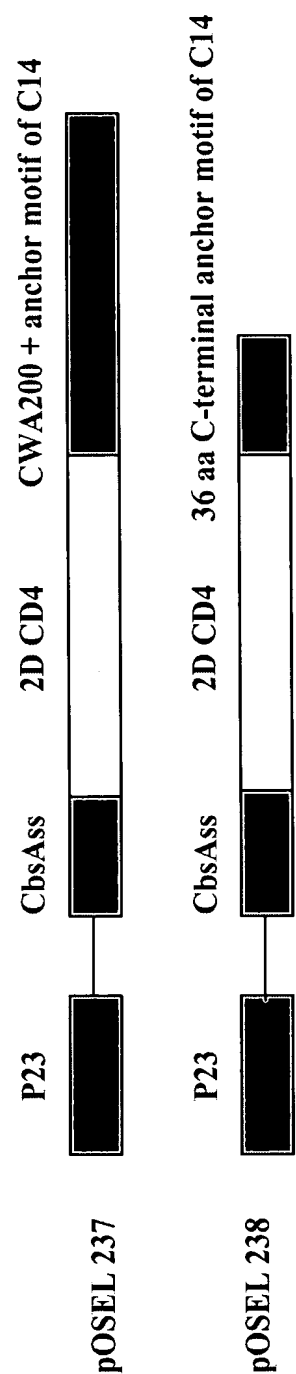


Figure 6

A.



B.

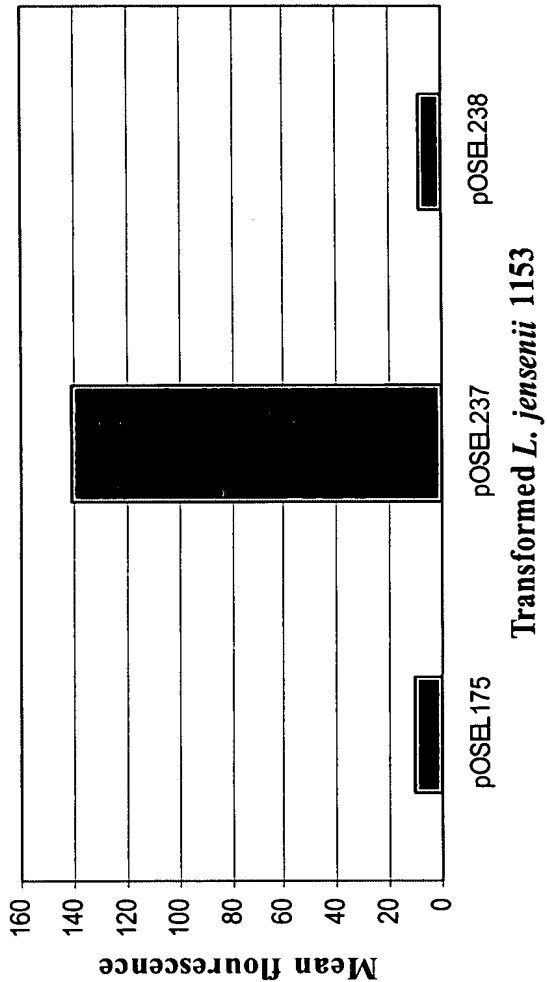


Figure 7

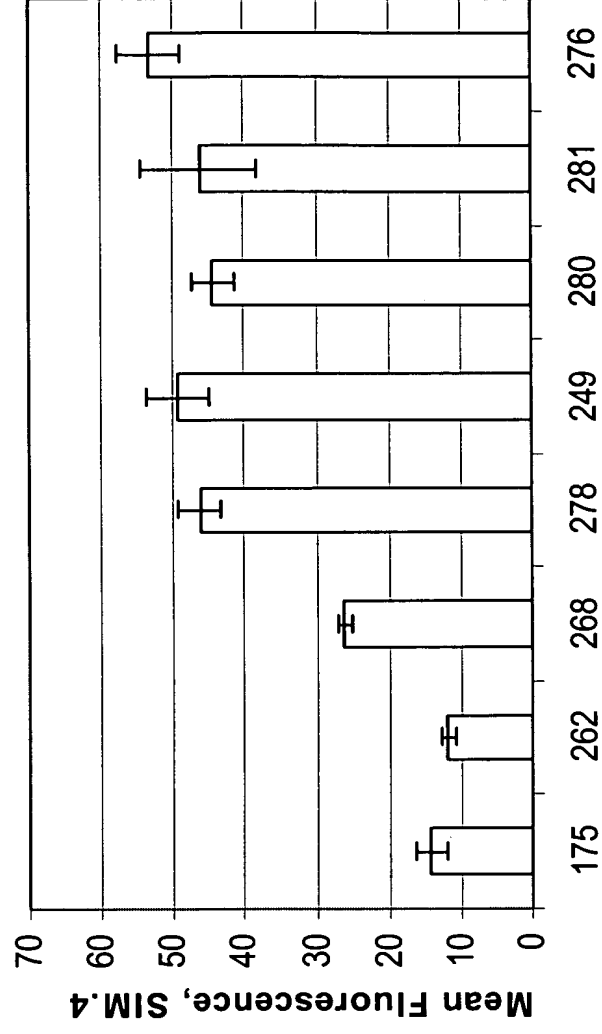
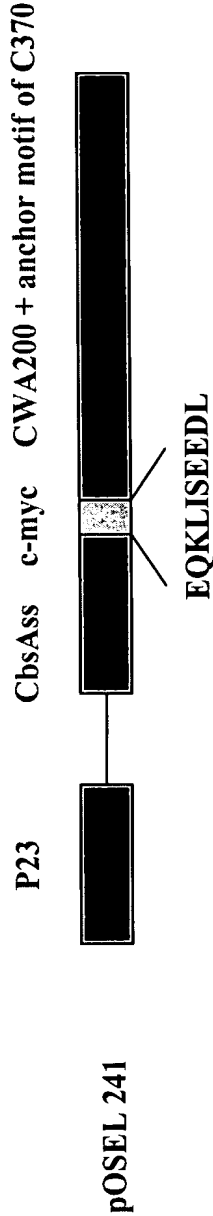
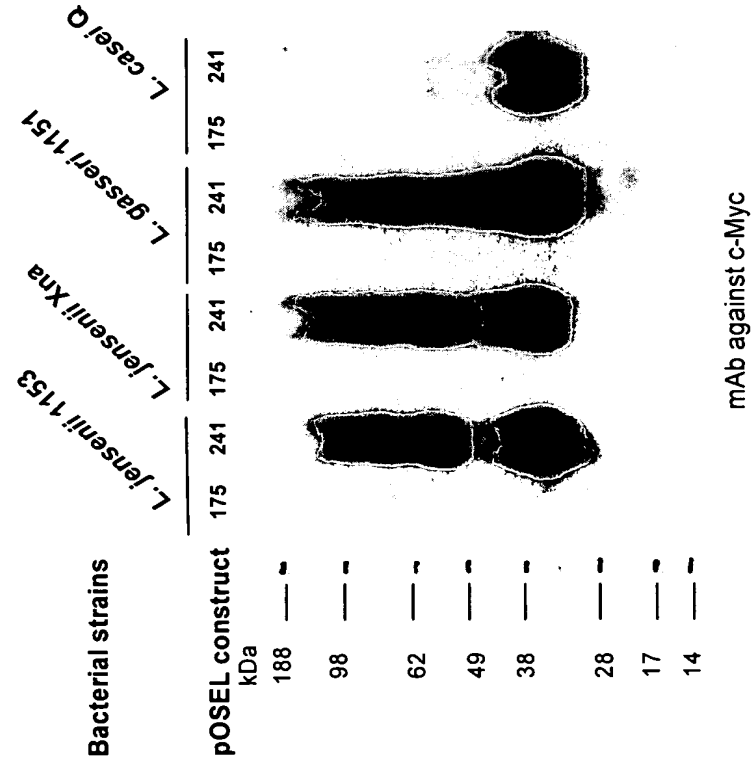


Figure 8

A.



B.



C.

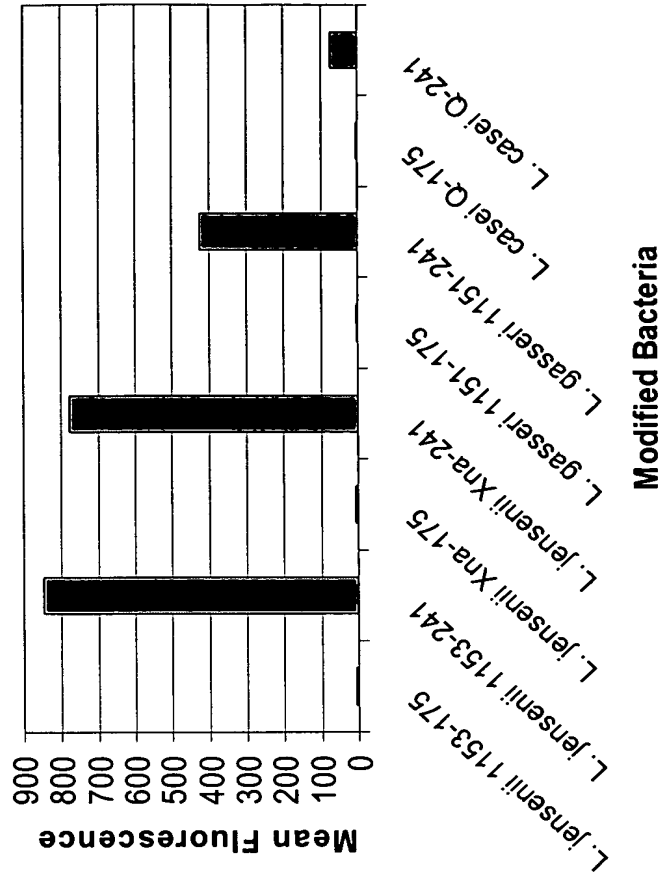
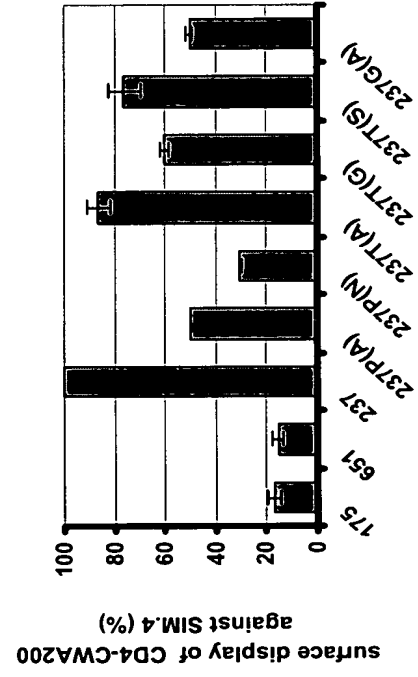


Figure 9

A.



B.

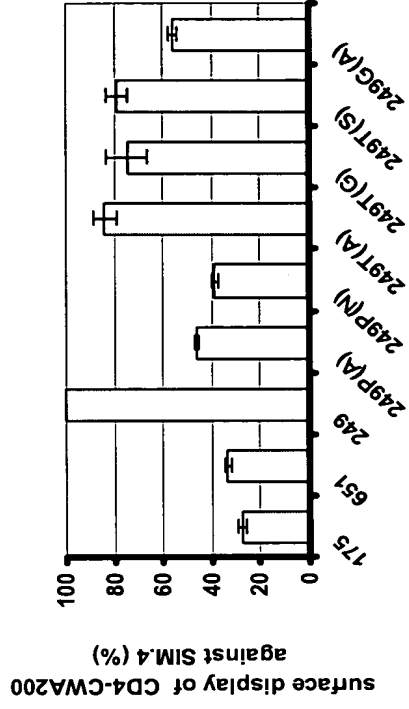
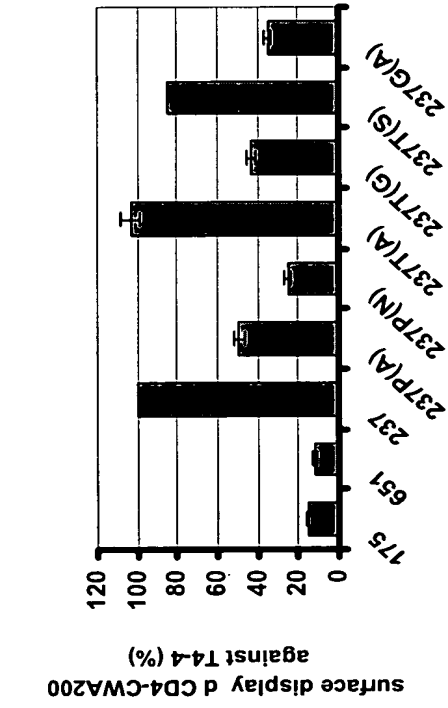


Figure 10

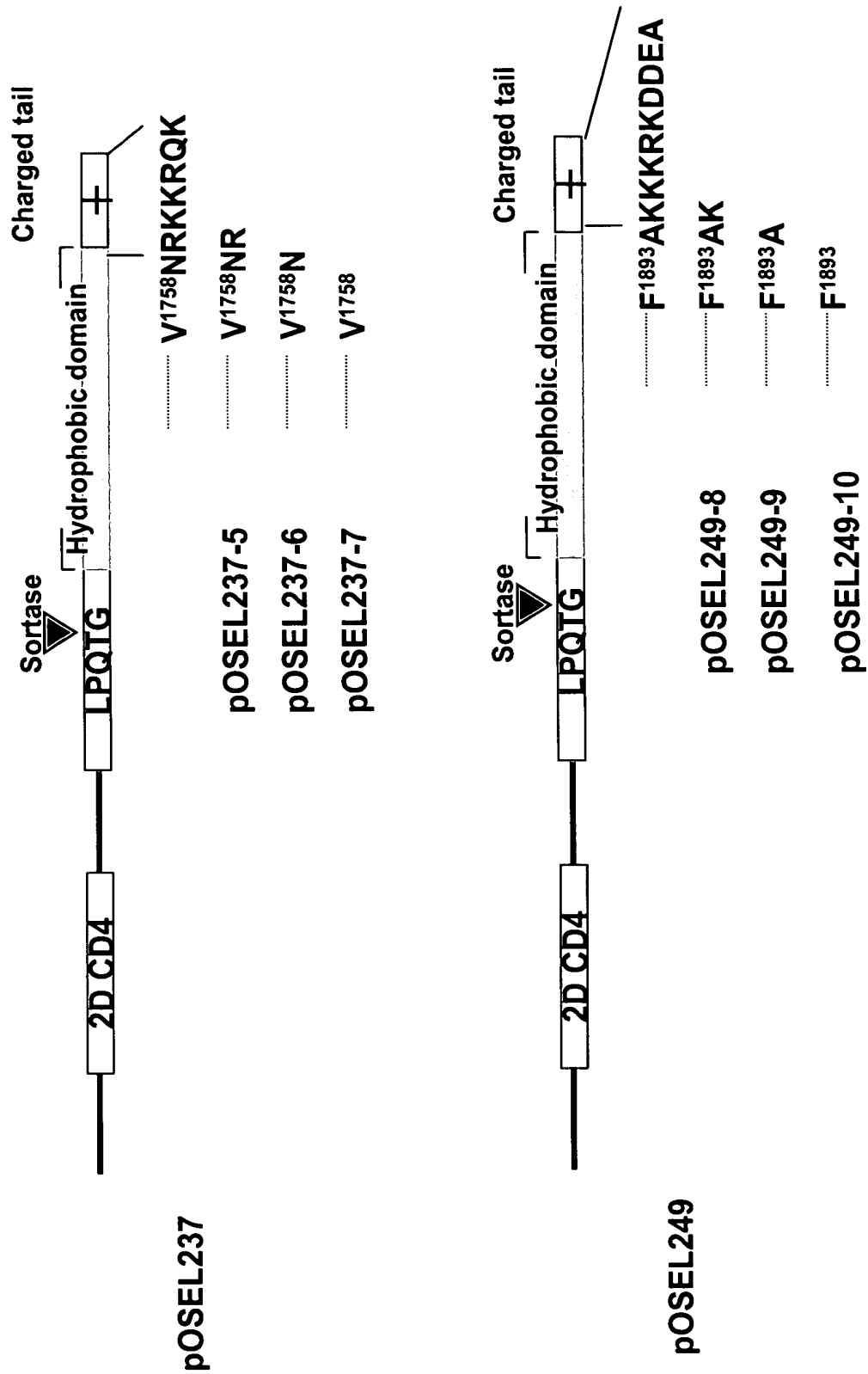
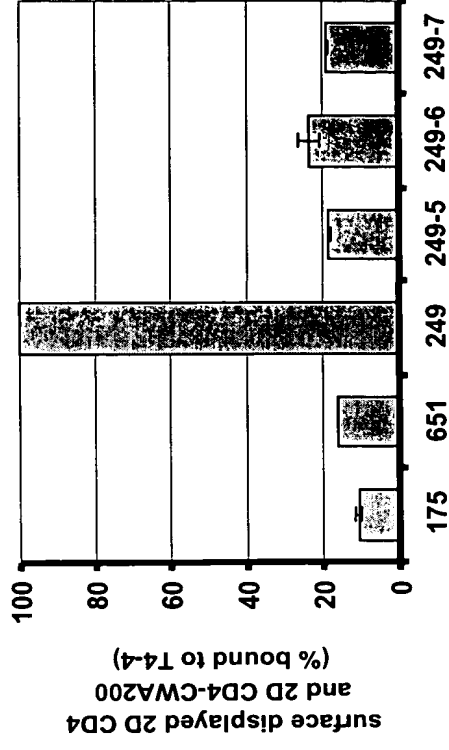
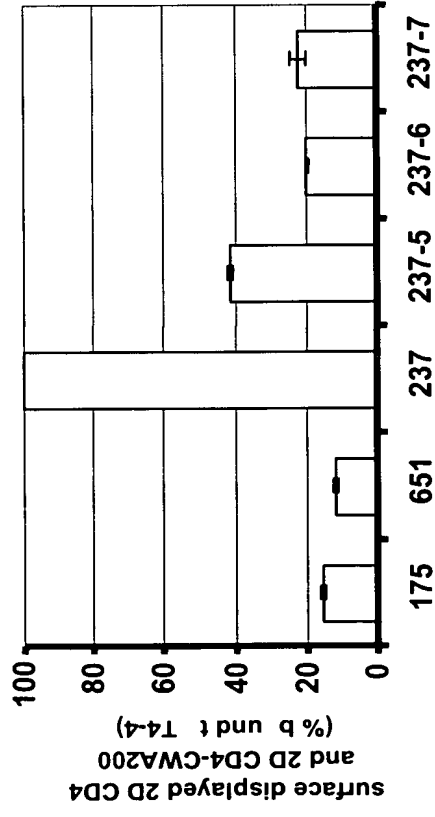


Figure 11

A.



B.

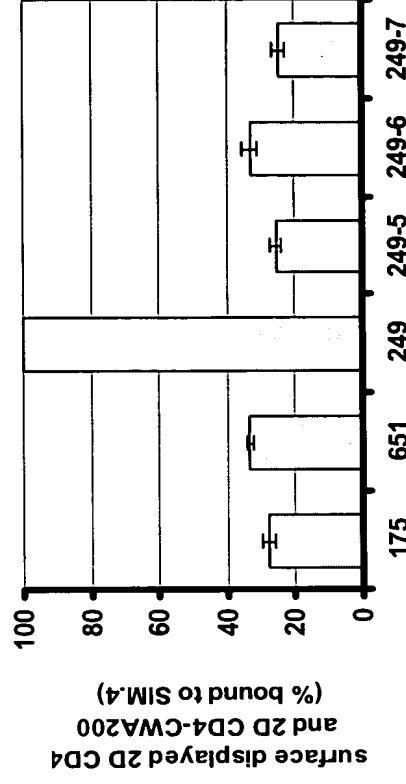
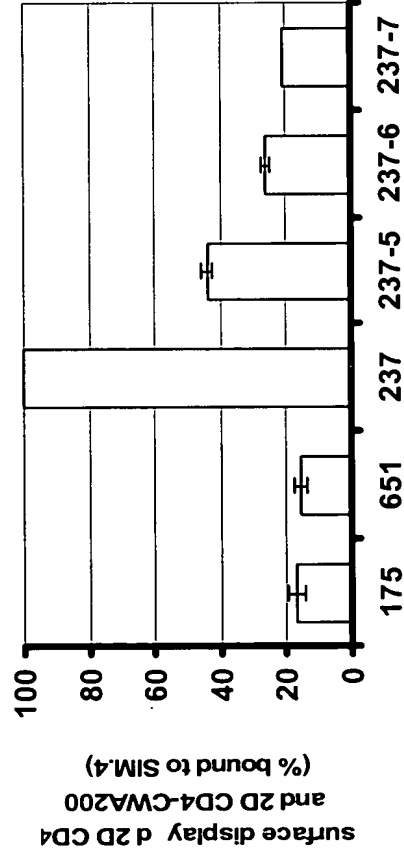


Figure 12

